

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Goa regional office

Mine file No : MAH/SDG/FE-42/GOA

Mine code : 30MSH28028

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 18-DEC-20
- (v) Prev.inspection date : 29-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TALAVANE**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MAHARASHTRA
District : SINDHUDURG
Village : SATARDA
Taluka : SAWANTWADI
Post office : SATARDA
Pin Code : 416514
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : NEW INDIA MINING CORPORATION PVT LTD
correspondance : MINES OFFICE,AT & POST REDDI
TQ: VENGURLA,DIST: SINDHUDURG, M.S
3. (a) Lease Number : MSH0091
- (b) Lease area : 191.85
- (c) Period of lease : 10
- (d) Date of Expiry : 16-FEB-06
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : MINERALS AND METALS
 32, ASHUTOSH, NEPEAN SEA
 ROAD, MUMBAI GREATER BOMBAY
 MAHARASHTRA
 Phone:
 FAX :

Owner : SANDEEP SRIVASTAVA
 NIRMAL, 16th Floor NARIMAN
 POINT GREATER BOMBAY
 MAHARASHTRA
 Phone: 022-22025893, 2
 FAX : 022-22854417

Agent : MANOJ THAKUR
 WSH 4, W BLOCK, SUNSET
 BOULVARD, ALTO DHULER,
 MAPUSA-GOA SINDHUDURG
 MAHARASHTRA
 Phone: 0832-2253864, 9769111533
 FAX : 832-2253863

Mining Engineer
 Name : MR. M.VENKATARAVANAPPA, Full Time
 Qualification : DIPLOMA IN MINING 1st class unrestrictede
 Appointment/ : 30-SEP-13 31-JUL-16
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 24 MCR1960 22-JUN-07
 Mining Scheme rule 12 MCDR1988 10-MAR-14
 MP modif under 17(3) MCR 2016 17-FEB-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	12 BOREHOLES PROPOSED (600 MT.DRILLING PROPOSED)	29 NO. OF BOREHOLE DRILLED. (1227.50MT TOTAL DRILLING)	
1b	Exploration over lease area for geological axis 1 or 2	2019-20, it was proposed to drill 12holes over an area of 6.00 Ha for Geological Axis 1 or 2	29 holes of drilling are reported over an area of 33.74Ha for Geological Axis 1 or 2	Total metres drilled 1227 mtr
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Shri Ramesh Gaonkar (Core Drilling Agency) 1,599,650 Rs.	As per the information submitted by mine management.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance Area as on October 2019 to bring geological axis 1 or 2 is 36.11Ha to be cover in by end of 5 years	Exploration In Balance area is under way and to be covered by end of five years.	MMP also approved on 11.03.2021
1e	Balance reserve as on 01/04/20		Reserve-625455 T Remaining Resource:- 170600T	As on 01/04/2020 As per AR 2019-20.
1f	General remarks of inspecting officers on geology, exploration etc		Exploration proposal till 2019-20 has achieved. Further, Modification of approved MMP has approved by this office recently on 11.03.2021 and accordingly Reserve & resources are revised.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1743850 - N1743430 & E 366330 - E366860	N 1743820 - N 1743600 & E 366340 - E 366880	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NO TOP SOIL SEPARATE BENCHES IN OVERBORDEN AS WELL AS IN ORE PROPOSED	NO TOP SOIL SEPARATE BENCHES ARE MADE IN OVERBORDEN AS WELL AS IN ORE
2c	Stripping ratio or ore to OB ratio	1:8.81	1:9.09
2d	Quantity of topsoil generation in m3	NIL	NIL
2e	Quantity of overburden generation in m3	703200 CU.MTS. (1406400 Tons)	9076076 CU.MTS. (1815215 Tons)
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development quantity achieved higher than the proposal quantity which help better stabilization of mine faces.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	
3b	Quantity of ROM mineral production proposed	199500Tonnes	199500Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	45 % Fe THRESHHOLD VALUE	45 % Fe THRESHHOLD VALUE	
3f	Quantity of sub grade mineral generation.	NIL	NIL	

3h	Manual / Mechanised method adopted for segregating from ROM	MACHANISED CRUSHING & SCREENING	MACHANISED CRUSHING & SCREENING	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	NOT PROPOSED	NO DRILLING & BLASTING	
3k	Provision of mining machineries in mineral benches	EXCAVATOR & DUMPER COMBINATION	EXCAVATOR & DUMPER COMBINATION	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6X8 PROPOSED	Yes	Rectification/main tenace of geometry of some area is suggested.
3m	Total area covered under excavation/pits		11.33 Ha	As per AR 2019-20.
3n	Ore to OB ratio for the pit/mine during the year.	1:8.81	1:9.01	
3o	Total area put in use under different heads at the end of year		Upto end of year 2019- 20 Excavation-11.33 ha Dumping-3.91 ha Road, Plants, buildings etc.- -1.5 ha Others - 2.25 ha	As per AR 2019-20
3p	Production of ROM mineral during the last five year period as applicable	2017-18 199250 2018-19 198750 2019-20 199500 2020-21# 199500#	2017-18 199200 2018-19 164595 2019-20 199500 2019-20# 63600#	# achieved Production Upto Nov. 2020
3q	General remarks of inspecting officers on method of mining etc.		Mechanized opencast mining with deployment of shovel and tipper combinations.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Only waste dump is proposed	Dumping activity carried out in the proposed area.	Top soil dumping - Nil& Mineral reject - Nil
4b	Location of topsoil, OB and mineral reject dumps	N1743410 - N1743675/ E3667060 - E367910	N1743983 - N1743708 & E366553 - E366837	Location of OB Mineral reject - Nil
4c	Number of dumps within lease area and outside of lease area	Lease area = ONE Non Lease area = N.A.	Lease area = ONE Non Lease area = N.A.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dumping is proposed within ultimate pit limit for year 2019-20	Dumping is in progress as per proposal in outside the UPL.	Commencement of backfilling also observed.
4e	Number of active and alive dumps.	One active dump	One active dump	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	150m garland drain & R wall 750m	Garland drain 300m & retaining wall 1250m	
4j	Number of settling ponds	1 settling tanks Proposed	1 settling pond maintained	
4k	Specific comments of inspecting officer on waste dump management		Waste dump formation observed as per the earmarked area. Further, planation on slopes and terrace of the dump are observed.	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Surface dumping is proposed for 2019-20	Dumping is in progress as per proposal.	Commencement of backfilling after full extraction of minerals.
5b	Area under backfilling of mined out area	0.2 ha	0.2 ha	Progress of Backfilling on mined out area are observed.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		It has observed that the Backfilling on mined out area are commenced.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).		2000 nos. as per the AR 2019-20 on waste dump for stablization.	
6d	No. of saplings planted during the year	1000 nos. sapling	2000 nos. as per the AR 2019-20	
6f	Any other method of rehabilitation	Nil	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.2 ha	0.2 ha	Backfilling started on the available void area.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Till date Not filled out the void.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NIL	NIL	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)		REGULAR ENVIRONMENTAL MONITORING IS CARRIED OUT.BY M/S SADEKAR ENVIRO ENGINEERS PVT.LTD.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The backfilling on part of mined out area observed to be commenced & planation stabilization of dump on slopes and terraces is observed.	

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADEWISE	GRADEWISE	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MACHANICAL	MACHANICAL	
7c	Different grade of mineral sorted out at mines.	YES	QUALITY MAINTAINED BELOW 55% Fe & 55-58 Fe %	
7d	Any beneficiation process at mines		Dry Crushing and screening is done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Satisfactory	

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top soil
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SEPARATE DUMP FOR OVERBURDEN & FINES stacks	SEPARATE DUMP FOR OVERBURDEN & FINES stacks MAINTAINED	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Dumping is in progress	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Backfilling started on mined out pit	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos.	2000 nos saplings	In the year 2019-20
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	WATER TANKERS was DEPLOYED FOR DUST SUPPRESSION	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantations on dump terraces are observed. Further, advice to develop the mine approaches road with good planation on both sides to improve the aesthetic beauty.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR (F1) Submitted up to = November 2020 AR (H1) Submitted up to = 2019-20	within time limit
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	Mining Engineer & Geologist appointed	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Upto end of year 2019-20 Excavation- 11.33 ha Dumping-3.91 ha Road, Plants, buildings etc.- -1.5 ha Others - 2.25 ha.	Upto end of year 2019-20 Excavation-11.33 ha Dumping-3.91 ha Road, Plants, buildings etc.- -1.5 ha Others - 2.25 ha.	
9d	Scrutiny of Annual return on afforestation	2000No's within lease	2000No's within lease	Observed plantations on dump area
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone ROM stock- Nil Lumps:- Below 55% Fe- 27886.81 te 55-58% Fe- 4368.71te Fines:- Below 55% Fe- 63246 te 55-58% Fe - 83525.57 te	Limestone ROM stock- Nil Lumps:- Below 55% Fe- 27886.81 te 55-58% Fe-4368.71te Fines:- Below 55% Fe-63246 te 55-58% Fe - 83525.57 te	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price : Below 55% Fe- 1131.80Rs/te 55-58% Fe- 1971.59 Rs/te Fines:- Below 55% Fe- 688.65 Rs/ te 55-58% Fe - 1397.16 Rs/ te Production Cost : Rs 610/- Per ton	Sample invoice checked	Observed satisfactory.

9k	Scrutiny of Annual return on mining machineries	Back hoe 1.4 CUM - 3 nos. Back hoe 2.2 CUM - 2 nos. Wheel loader 02nos. Dozer 02 nos. Tipper-16 nos,, Mobile crusher 01 no. Water tanker(10000Ltrs) 2 nos.
----	--	---

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(SURESH PRASAD)

Indian Bureau of Mines